

Public Notice
PERMIT APPLICATION: NRS #07.091

APPLICANT: TDOT
505 Deaderick Street
Suite 900 James K Polk Bldg.
Nashville, TN 37243-0339
(615) 253-2477

LOCATION: I-75 from 1.1 miles South of US-11 to 1.2 miles north of US-11
Site Lat. 35.0862°N, 85.0681°W
Hamilton County

WATERSHED DESCRIPTION: This project is located in the Tennessee River Watershed, HUC 06020001, and will be impacting Wolftever Creek, Rodgers Branch, and tributaries to each. Land use surrounding the project areas is urban along the first half of the project leading to more suburban at the distal end of the project. Five streams and 1 wetland are to be impacted by the project. Wolftever Creek, Rodgers Branch and tributaries to each have been assessed as fully supporting their designated uses. **USGS TOPO QUAD:** Ooltewah, TN (112-SE)

PROJECT DESCRIPTION: This application is for an aquatic resource alteration permit associated with the widening of a 2.608-mile segment of I-75 at the US 11 interchange, including road work on Old Lee Highway, Hunter Road, and Mountain View Road and associated sewer, gas, water, and electric lines removal and reinstallation.

Proposed impacts to Stream 1, an unnamed tributary to Wolftever Creek, Station 514+00 Rt to Station 524+40 Lt are a 799ft rip rap lined stream relocation, removal/ construction and extension of box culverts, the creation of 5 storm water outfalls, relocations of sewer, water, gas, and electric lines. This stream currently flows on soil and gravel substrate, is approx. 4ft wide with forested riparian buffer on the south side of I-75 and north of Old Lee Highway. Existing on this stream are three culverts, one 43 ft on Old Lee Highway, one 240 ft under I-75 and one 60ft under Hunter Rd on the north side of I-75. The existing sewer on the south side of I-75 crosses this stream twice and parallels the segment to be relocated. The existing water line being removed parallels both sides of Old Lee Highway. Stream 1 is crossed 4 times with the existing water line. These utilities would be removed. New water and sewer lines are to be moved south of the proposed relocated channel eliminating the utility crossings of the relocated stream 1 on the south side of I-75. The existing utility lines within 10ft of the existing stream channel are not to be removed until the proposed stream channel has been constructed and flow is redirected.

On the south side of I-75, the relocation would begin north of Old Lee Highway; continue south of the Old Lee Highway in a vacant lot before flowing north under Old Lee highway and I-75. The channel is to be trapezoidal rip rap lined with a 3ft deep low flow notch creating a 4ft stream bottom width with 2ft artificial flood plain leading to a 2:1 sloped bank, top of bank width approximately 25ft. Willow stakes are to be planted in the rip rap at the water edge and trees are proposed on the south side of the relocated

channel planted 3ft from top of bank on 6 to 8ft centers. The culvert under Lee Highway would be removed with the realignment of this road. The stream relocation includes a transition to the proposed 103ft single barrel 8ft by 5ft box culvert to be located approximately 50ft upstream from its current location. The box culverts under I-75 and Hunter Road would be connected by the addition of 165ft of box culvert. Total post construction encapsulation would be 508ft. North of I-75, water, sewer, gas, and electric lines are to be relocated. A 25 ft, 15-inch diameter ductile iron sewer line is to be installed under the proposed culvert between Hunter Road and the relocated stream channel. The existing water, gas, and electric lines between I-75 and Hunter Road are being removed. The replacement water and gas lines are to parallel each other north of Hunter Road and the stream relocation at Station 523Lt crossing stream 1. The electric line is to be replaced in the same general location between Hunter Road and I-75. Five storm water outfalls are proposed to stream 1. Three of these outfalls are concrete pipes proposed into the wall of the box culvert under I-75 the other two are constructed ditches disturbing upto 10ft of stream bank each. The northern most storm water outfall would intersect the relocated channel at the right angle of the relocated channel. Proposed as mitigation for the 268ft of encapsulation is payment of \$53,600 to the Tennessee Stream Mitigation Program (TSMP). Proposed mitigation for the 799ft of rip rapped lined channel is payment of \$119,800 the TSMP. Total proposed payment to TSMP is \$173,400 for impacts to stream 1.

Proposed for Stream 5, unnamed tributary to Wolftever Creek, Station 13+00 Lt to Station 14+50 Lt is relocation into a storm water conveyance. Stream 5 is spring fed flowing approximately 225ft to Wolftever Creek with wooded canopy at its headwaters. The channel is approximately 4ft wide with gravel and cobble substrate with shallow banks. Proposed is the relocation of 160ft of this stream into a 154ft trapezoidal storm water conveyance with 5ft bottom width and approximately 15ft top of bank width. A natural substrate is to be used. One row of willow stakes is to be planted at the waters edge. Trees are to be planted 3ft from the top of bank on 6 to 8ft centers. Six feet of stream would be lost with the relocation. Proposed is payment of \$1,200 to the TSMP as mitigation for the 6ft loss of resource value. 100ft of riprap is to be placed in the storm water conveyance from Stations 11+75 to Stations 12+75 to dissipate the storm flow velocity. There will be no impacts to this stream from the electric or sewer lines. However, the gas and water lines are proposed to cross stream 5 at Mountain View Road, station 13Lt.

Proposed impacts to stream 2, Wolftever Creek, Station 532+40, include the removal and construction of three bridges. Bridge 1 on I-75 is to be removed and replaced with a 4 span bridge 320ft x 288ft with two piers in the water. Bridge 2 on Hunter Road and approaches are to be removed to 1ft below natural ground. Portions of this disturbed area will be included in the width of bridge 1. The new bridge over Hunter Road, a 4 span 400ft by 50ft concrete bridge with no piers in the water, is to be built approximately 100ft downstream of the existing bridge. Bridge 3 on Old Lee Highway is to be removed and replaced with a 320ft x 37ft with two piers in the water. Due to their proximity, the riprap placed around the abutments of bridge 1 will connect to that of bridge 3. Wolftever Creek is approximately 50ft wide flowing on soil and gravel substrate. The only riparian canopy existing in the project area for this stream is a wooded area on the proposed new

alignment of Hunter Road. There is to be no impacts to Wolftever Creek by the sewer line relocation. The existing waterlines north and south of the I-75 bridge are to be removed. The southern water line is to parallel the existing sewer line. The northern water line crossing will be moved north near the right of way boundary. The existing electric and gas lines are north of and adjacent to I-75. The relocated gas line would parallel the water line near the northern ROW boundary.

Proposed for wetland 1, Mountain View Rd, Station 20+70 Lt., are 0.01 acres of temporary impacts from the installation of the waterline. Prior to the excavation, the topsoil is to be removed and stockpiled. Less than 50 cubic yards is to be excavated with clay caps at each end of the trench to prevent draining the wetland. Post construction the wetland area is to be returned to pre construction elevations, the topsoil redistributed, and wetland vegetation planted. There is to be no other impacts to this wetland from this project and no sod is to be used in restoring the wetland.

Proposed for stream 3, Rodgers Branch, Station 588+77.87, is a 64ft extension of the existing box culvert, an 11ft paved outlet, plus 40ft of rip rap at the outlet. 28ft of the extension is to be on the inlet and 36ft on the outlet. The existing channel in this location is approximately 4ft wide with sand and gravel substrate and forested canopy. The proposed transition channel would be 10ft wide with 2:1 side slopes. Additionally, 4 storm water outfalls are proposed, two paved conveyances entering at the outlet onto the paved substrate and riprap on each the left and right banks, and two 24-inch concrete pipes on each the left and right banks under I-75. There are to be no impacts to this stream from utility work. Proposed as mitigation for the loss of resource value is payment of \$46,000 to the TSMP for the 230ft of encapsulation.

Proposed for stream 4, unnamed tributary to Rodgers Branch, Station 600+88.26, is a 37ft extension of the existing 170ft box culvert; 25ft on the inlet and 12ft on the outlet. Seven feet of stream is proposed to be paved at the outlet of the box culvert plus 35ft of riprap is proposed at the outlet. Stream 4 flows on soil and gravel substrate, is approximately 7ft wide with forested canopy. The transition channel width is to be 10ft wide with 2:1 side slopes. Additionally, 3 storm water outfalls are proposed; two, V shaped sod ditches on each the left and right banks at the inlet to the box culvert and on 18 inch diameter concrete pipe under I-75 in the right bank. For the installation of V sod ditches, 10ft of bank disturbance is proposed. There is to be no impacts to this stream from utility work. Proposed as mitigation for the 214ft encapsulation and paving of stream channel is \$42,800 to the TSMP.

In total for the project, \$263,400 is proposed to the TSMP.

In accordance with the Tennessee Antidegradation Statement (Rule 1200-4-3-.06), the division has determined that the proposed widening of I-75 will result in degradation to water quality to each stream being impacted by this project. Tier evaluations were conducted showing each stream to be Tier I.

The applicant requested a public hearing. The public hearing notice is running concurrently with this notice. The hearing is to be held at 2:00pm Eastern Friday, August 31, 2007 in the auditorium at the Chattanooga Environmental Field Office.

PERMIT COORDINATOR: Judy Manners

No decision has been made whether to issue or deny this permit. The purpose of this notice is to inform interested parties of this permit application and to ask for comments and information necessary to determine possible impacts to water quality. Persons wishing to comment on the proposal are invited to submit written comments to the department. Written comments must be received within **thirty days of the date that this notice is posted**. Comments will become part of the record and will be considered in the final decision. The applicant's name and permit number should be referenced.

Interested persons may also request in writing that the department hold a public hearing on this application. The request must be filed within the comment period, indicate the interest of the person requesting it, the reasons that the hearing is warranted, and the water quality issues being raised. When there is sufficient public interest in water quality issues, the department will hold a public hearing.

The permit application, supporting documentation including detailed plans and maps, and related comments are available at the department's address for review and/or copying. The department's address is:

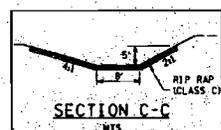
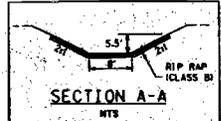
Tennessee Department of Environment & Conservation
Division of Water Pollution Control, Natural Resources Section
7th Floor L & C Annex
401 Church Street
Nashville, TN 37243

In deciding whether to issue or deny a permit, the department will consider all comments on record and the requirements of applicable federal and state laws.

DATE	NO.	REVISION	BY
2007	1	ISSUE FOR PERMIT	...
2007	2	REVISED	...

REV. DATE 01-08-06 BY: [Name] REVISION: [Description]

REV. DATE 01-08-06 BY: [Name] REVISION: [Description]



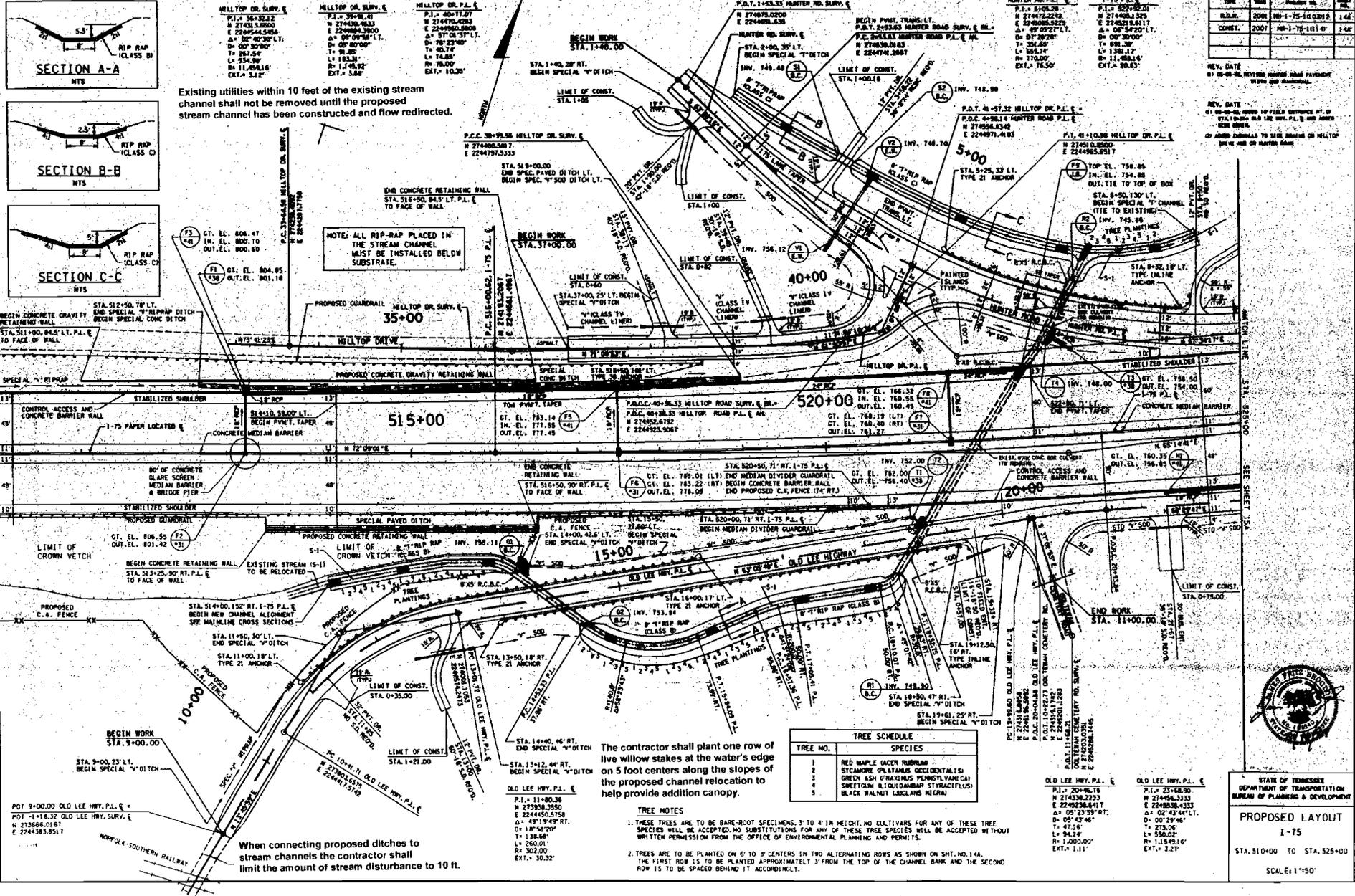
Existing utilities within 10 feet of the existing stream channel shall not be removed until the proposed stream channel has been constructed and flow redirected.

NOTE: ALL RIP-RAP PLACED IN THE STREAM CHANNEL MUST BE INSTALLED BELOW SUBSTRATE.

The contractor shall plant one row of live willow stakes at the water's edge on 5 foot centers along the slopes of the proposed channel relocation to help provide additional canopy.

TREE NO.	SPECIES
1	RED MAPLE (ACER RUBRUM)
2	SYCAMORE OR FRAXINUS OCCIDENTALIS
3	GREEN ASH (FRAXINUS PENNSYLVANICA)
4	SWEETGUM (LIQUIDAMBAR STYRACIFLUS)
5	BLACK WALNUT (JUGLANS NIGRA)

- TREE NOTES
- THESE TREES ARE TO BE BARE-ROOT SPECIMENS, 3 TO 4 1/2 IN HEIGHT, NO CULTIVARS FOR ANY OF THESE TREE SPECIES WILL BE ACCEPTED, NO SUBSTITUTIONS FOR ANY OF THESE TREE SPECIES WILL BE ACCEPTED WITHOUT WRITTEN PERMISSION FROM THE OFFICE OF ENVIRONMENTAL PLANNING AND PERMITS.
 - TREES ARE TO BE PLANTED ON 6 TO 8' CENTERS IN TWO ALTERNATING ROWS AS SHOWN ON SHT. NO. 14A. THE FIRST ROW IS TO BE PLANTED APPROXIMATELY 3' FROM THE TOP OF THE CHANNEL BANK AND THE SECOND ROW IS TO BE SPACED BEHIND IT ACCORDINGLY.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPOSED LAYOUT
I-75

STA. 510+00 TO STA. 525+00

SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.L.M.	2001	MM-1-75-111.051.2	15A
CONST.	2007	MM-1-75-111.0	15A

The contractor shall plant one row of live willow stakes at the water's edge on 5 foot centers along the slopes of the proposed channel relocation to help provide additional canopy.

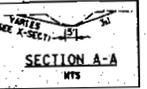
REV. DATE
 01-09-08 REVISED DWTLS TO REFLECT NEW DATA AND NEW ALIGNMENT FOR RAMP TO HUNTER ROAD AND ACCESS ROAD. C.A. GRAD AND STAKE OFFSETS FOR HUNTER ROAD AND ACCESS ROAD. REVISED PROPERTY LINES TO BE SHOWN AS RAIL LINES. NO EXISTING ACCESS CONTROL FENCE AT EXISTING HUNTER ROAD.

TREE NOTES

1. THESE TREES ARE TO BE BARE-ROOT SPECIMENS 3" TO 4" IN HEIGHT. NO CULTIVARS FOR ANY OF THESE TREE SPECIES WILL BE ACCEPTED. NO SUBSTITUTIONS FOR ANY OF THESE TREE SPECIES WILL BE ACCEPTED WITHOUT WRITTEN PERMISSION FROM THE OFFICE OF ENVIRONMENTAL PLANNING AND PERMITS.
2. TREES ARE TO BE PLANTED ON 6" TO 8" CENTERS IN TWO ALTERNATING ROWS AS SHOWN ON SHT. NO. 14A. THE FIRST ROW IS TO BE PLANTED APPROXIMATELY 3' FROM THE TOP OF THE CHANNEL BANK AND THE SECOND ROW IS TO BE SPACED BEHIND IT ACCORDINGLY.

TREE SCHEDULE

TREE NO.	SPECIES
1	RED MAPLE (ACER RUBRUM)
2	STYCAMPE PLATANUS OCCIDENTALIS
3	GREEN ASH (FRAXINUS PENNSYLVANICA)
4	SWEETGUM (LIGULANDRIA STRYCIATIFLUS)
5	BLACK WALNUT (JUGLANS NIGRA)



RIP-RAP LIMITS
 STA. 9+50.00 TO 11+00.00
 STA. 11+00.00 TO 11+50.00
 STA. 11+50.00 TO 12+00.00

STABILIZED SHOULDER
 STA. 11+00.00 TO 11+50.00
 STA. 11+50.00 TO 12+00.00

CONCRETE BARRIER WALL
 STA. 11+00.00 TO 11+50.00
 STA. 11+50.00 TO 12+00.00

CONCRETE MEDIAN BARRIER
 STA. 11+00.00 TO 11+50.00
 STA. 11+50.00 TO 12+00.00

CONCRETE BARRIER WALL AND CONTROL ACCESS
 STA. 11+00.00 TO 11+50.00
 STA. 11+50.00 TO 12+00.00

STABILIZED SHOULDER
 STA. 11+00.00 TO 11+50.00
 STA. 11+50.00 TO 12+00.00

CONCRETE BARRIER WALL AND CONTROL ACCESS
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 STA. 11+50.00 TO 12+00.00

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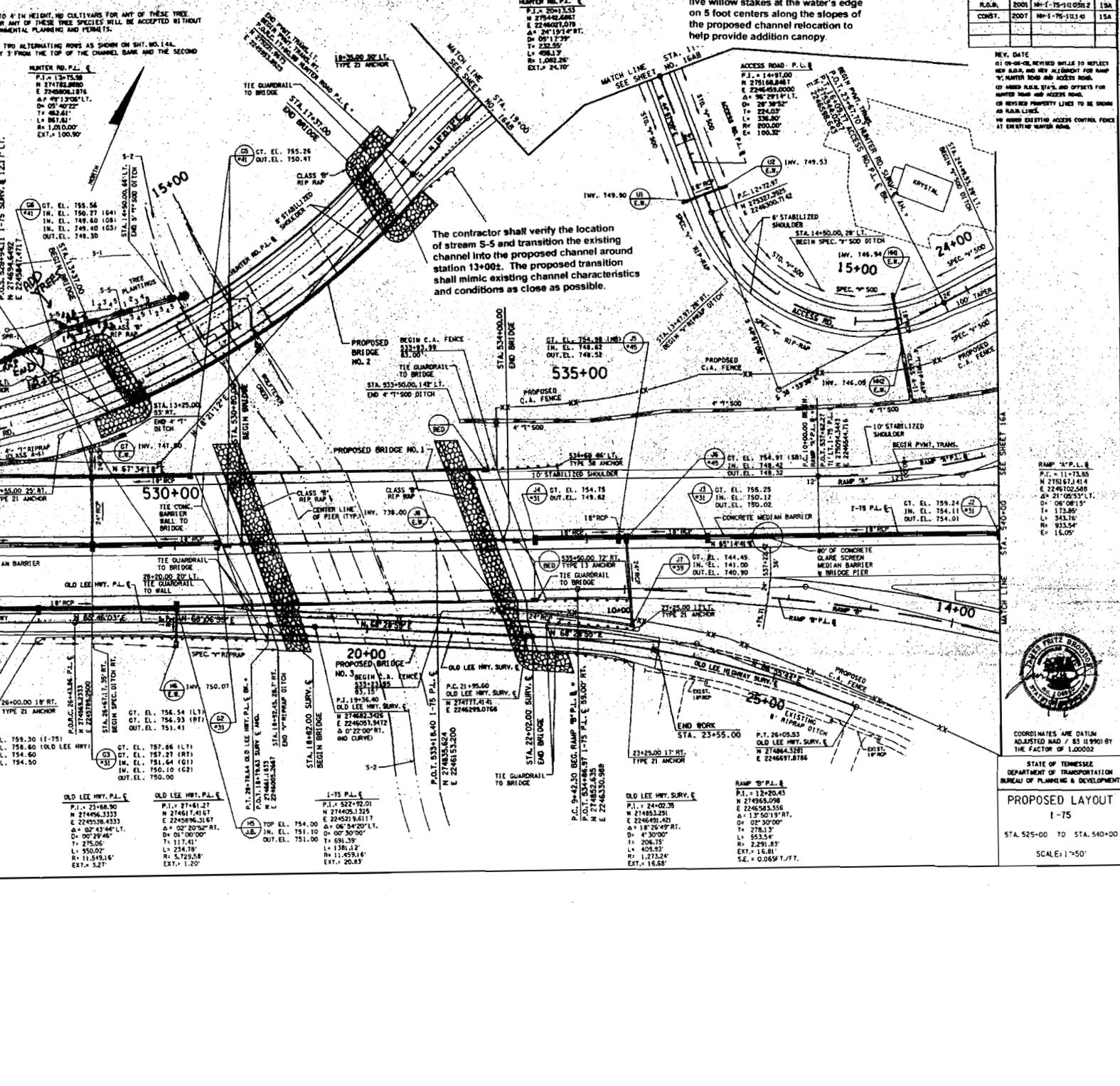
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CONCRETE BARRIER WALL AND CONTROL ACCESS
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CONCRETE BARRIER WALL AND CONTROL ACCESS
 STA. 11+00.00 TO 11+50.00
 STA. 11+50.00 TO 12+00.00



The contractor shall verify the location of stream S-5 and transition the existing channel into the proposed channel around station 13+00. The proposed transition shall mimic existing channel characteristics and conditions as close as possible.



COORDINATES ARE DATUM ADJUSTED NAD 83 (8901) BY THE FACTOR OF 1.00002

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF PLANNING & DEVELOPMENT

PROPOSED LAYOUT

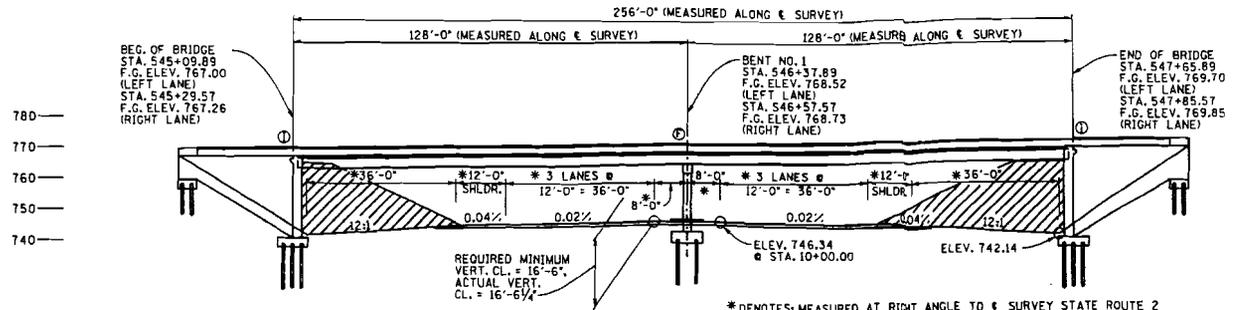
I-75

STA. 525+00 TO STA. 540+00

SCALE: 1"=50'

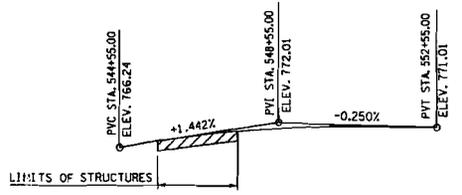
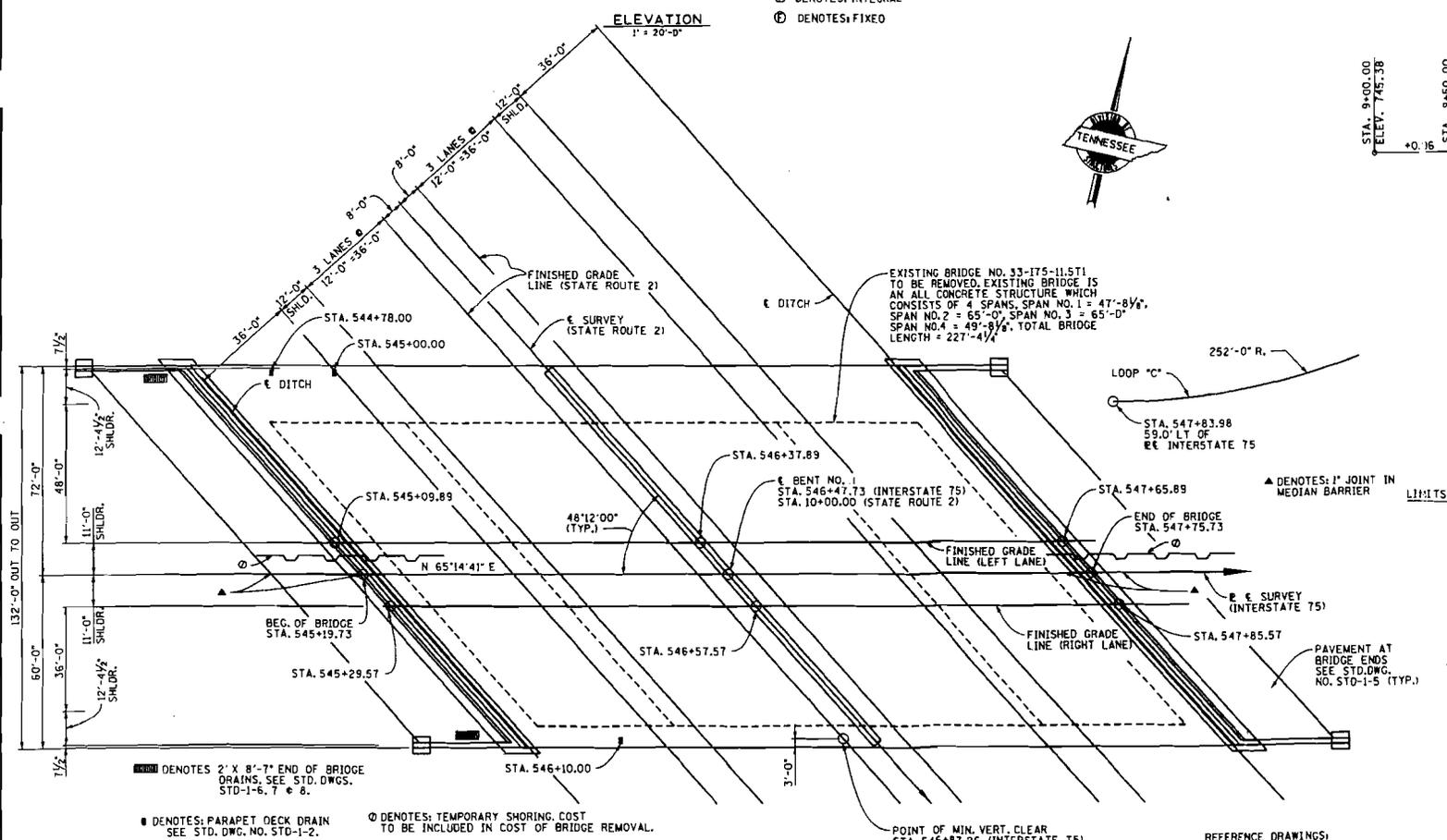
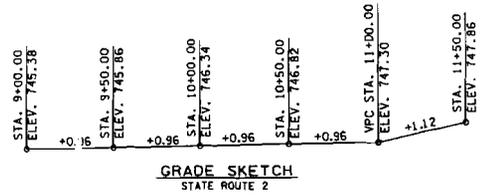
PROJECT NO.	YEAR
14-1-75-1(103)12	2007

REVISIONS			
NO.	DATE	BY	DESCR.



NOTE: CROSS HATCHED AREAS INDICATE AREAS OF REMOVAL. COST TO BE INCLUDED IN ROADWAY ITEMS.

ELEVATION
1" = 20'-0"



2020 ADT = 77,880
130'-9" ROADWAY WITH STD-1-1SS AND STD-1-3SS (54") MEDIAN B DESIGN SPEED = 70 MPH

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 4
LAYOUT OF BRIDGE OVER STATE ROUTE 2
BRIDGE ID. NO. 33100750C
BRIDGE ID. NO. 33100750C
STATION 546+47.73 L
HAMILTON COUNT
2007

DESIGNED BY J. PULLEY DATE 4-2006
DRAWN BY KEVIN MARTINO DATE 5-2006
SUPERVISED BY J. FIELDS/A. PRICE DATE 5-2006
CHECKED BY J. PULLEY DATE 10-2006

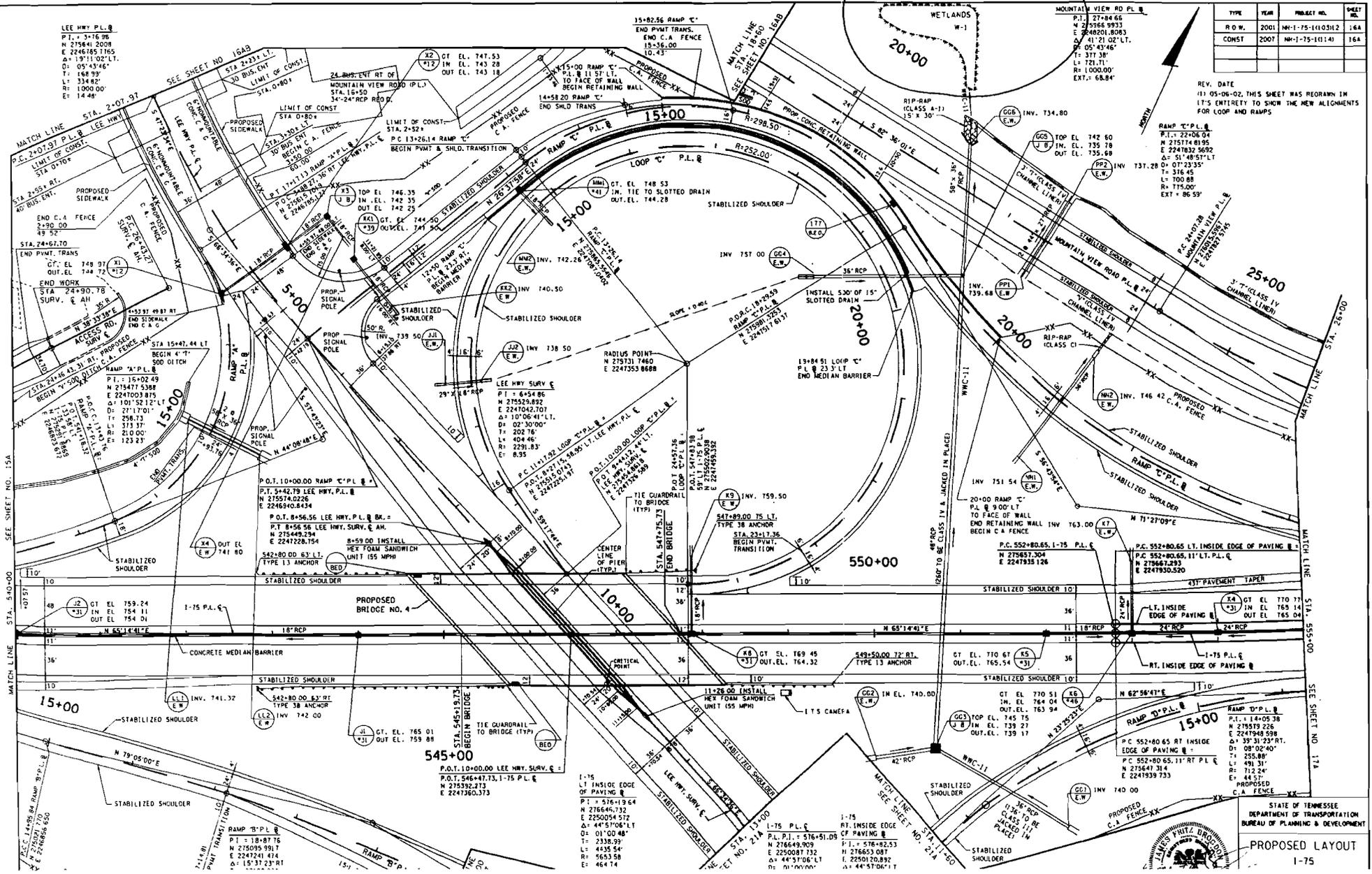
⊕ DENOTES: PARAPET DECK DRAIN SEE STD. DWG. NO. STD-1-2.
⊙ DENOTES: TEMPORARY SHORING. COST TO BE INCLUDED IN COST OF BRIDGE REMOVAL.

REFERENCE DRAWINGS:
ORIGINAL LAYOUT H-6-1
WIDENING LAYOUT M-169-135

CORRECT *Edward P. Wasserman*
REGISTERED PROFESSIONAL ENGINEER

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	NH-1-75-1(10)31.2	16A
CONST.	2007	NH-1-75-1(11)4	16A

REV. DATE
 11-05-06-02 THIS SHEET WAS RE-DRAWN IN IT'S ENTIRETY TO SHOW THE NEW ALIGNMENTS FOR LOOP AND RAMP



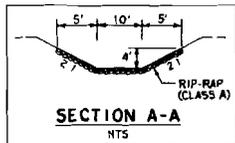
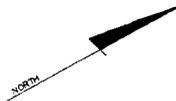
STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF PLANNING & DEVELOPMENT

PROPOSED LAYOUT

1-75

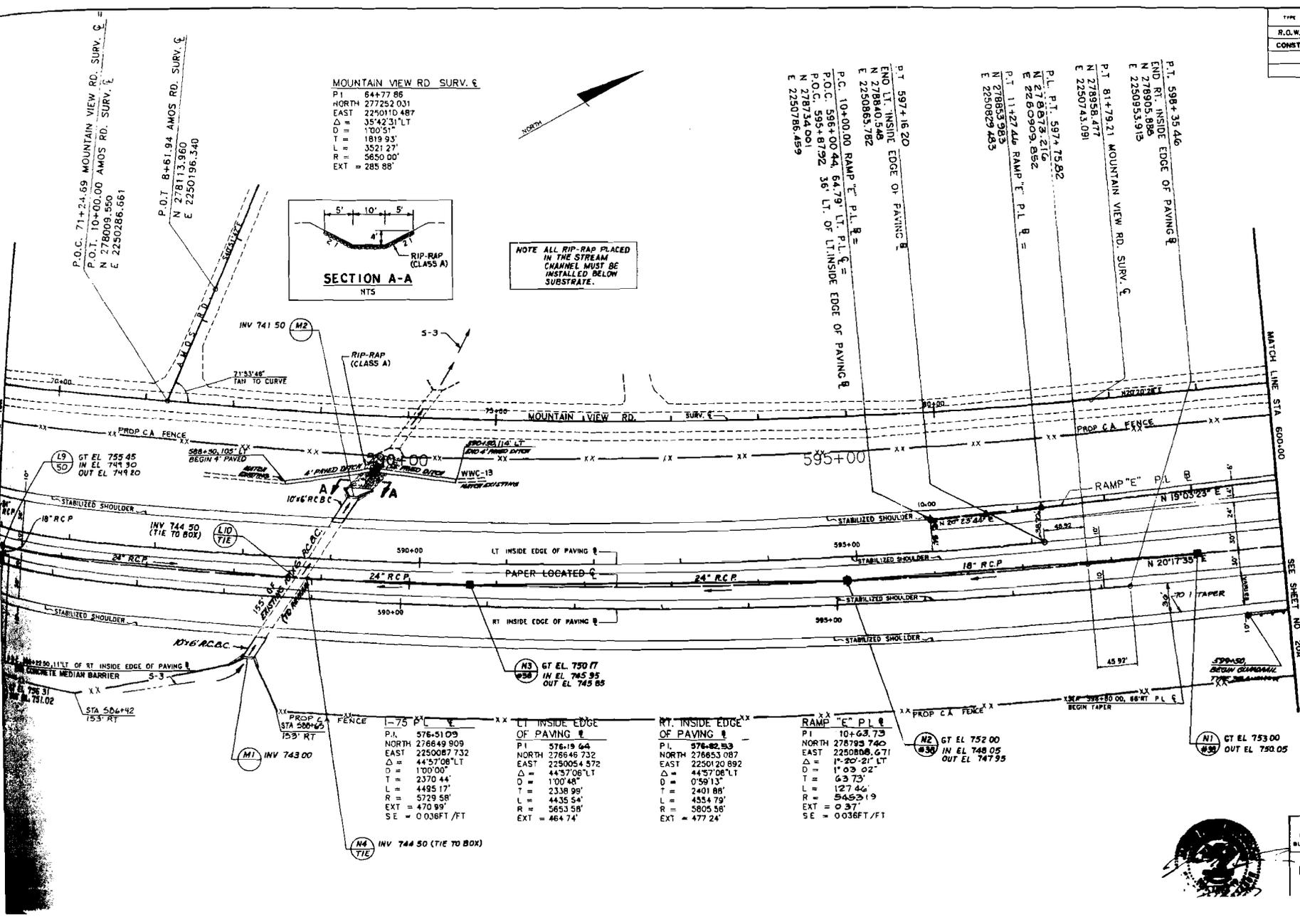
TYPE	YEAR	PROJECT NO	SHEET NO
R.O.W.	01	NS-1-7-11(103)12	19A
CONST	2007	NS-1-73-1(114)	19A

MOUNTAIN VIEW RD SURV. C
 P.I. 64+77.86
 NORTH 277252.031
 EAST 2290110.487
 $\Delta = 35^{\circ}42'31"$ LT
 $D = 100'51"$
 $T = 1819.93'$
 $L = 3521.27'$
 $R = 5650.00'$
 EXT = 285.88'



NOTE ALL RIP-RAP PLACED
 IN THE STREAM
 CHANNEL MUST BE
 INSTALLED BELOW
 SUBSTRATE.

P.T. 598+35.46
 END RT. INSIDE EDGE OF PAVING R
 N 278905.898
 E 2250953.915
 P.T. 81+79.21 MOUNTAIN VIEW RD. SURV. C
 N 278958.477
 E 2250743.091
 P.L. P.T. 597+75.82
 N 278073.216
 E 2260909.852
 P.T. 11+27.44 RAMP "E" P.L. R =
 N 278853.985
 E 2250829.453
 P.C. 10+00.00 RAMP "E" P.L. R =
 P.O.C. 596+00.44 64.79' LT. P.L. C =
 P.O.C. 595+87.92 36' LT. OF LT. INSIDE EDGE OF PAVING R
 N 278734.001
 E 2250786.459
 P.T. 597+16.20
 END LT. INSIDE EDGE OF PAVING R
 N 2788401.948
 E 2250863.782



I-75 P.L. C
 P.I. 576-51.09
 NORTH 276649.909
 EAST 2250087.732
 $\Delta = 44^{\circ}57'08"$ LT
 $D = 100'00"$
 $T = 2370.44'$
 $L = 4495.17'$
 $R = 5729.58'$
 EXT = 470.99'
 SE = 0.036FT/FT

LT. INSIDE EDGE
 OF PAVING R
 P.I. 576-19.64
 NORTH 276646.732
 EAST 2250054.572
 $\Delta = 44^{\circ}57'08"$ LT
 $D = 100'48"$
 $T = 2338.99'$
 $L = 4435.54'$
 $R = 5653.58'$
 EXT = 464.74'

RT. INSIDE EDGE
 OF PAVING R
 P.I. 576-82.53
 NORTH 276793.740
 EAST 2250808.671
 $\Delta = 1^{\circ}20'21"$ LT
 $D = 17^{\circ}53'02"$
 $T = 63.73'$
 $L = 127.44'$
 $R = 5453.19'$
 EXT = 0.37'
 SE = 0.036FT/FT

RAMP "E" P.L. R
 P.I. 10+63.73
 NORTH 278793.740
 EAST 2250808.671
 $\Delta = 1^{\circ}20'21"$ LT
 $D = 17^{\circ}53'02"$
 $T = 63.73'$
 $L = 127.44'$
 $R = 5453.19'$
 EXT = 0.37'
 SE = 0.036FT/FT

GT EL. 752.00
 IN EL. 748.05
 OUT EL. 747.95

GT EL. 753.00
 OUT EL. 750.05



STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF PLANNING & DEVELOPMENT
 PROPOSED LAYOUT
 I-75

COLTEWAH, TN QUADRANGLE 112-SE

APPLICATION BY:
TENNESSEE DEPARTMENT OF TRANSPORTATION
Project # 33005-1152-44(A)
FED # NH-I-75-1(114)
PIN 100249.03
INTERSTATE 75
FROM: 1.1 MILES SOUTH OF SR-2
TO: 1.2 MILES NORTH OF SR-2
HAMILTON COUNTY



**END PROJECT
STA. 610+00.00**

**IARAP # 4 *Stream 4*
STA. 600+88.26**

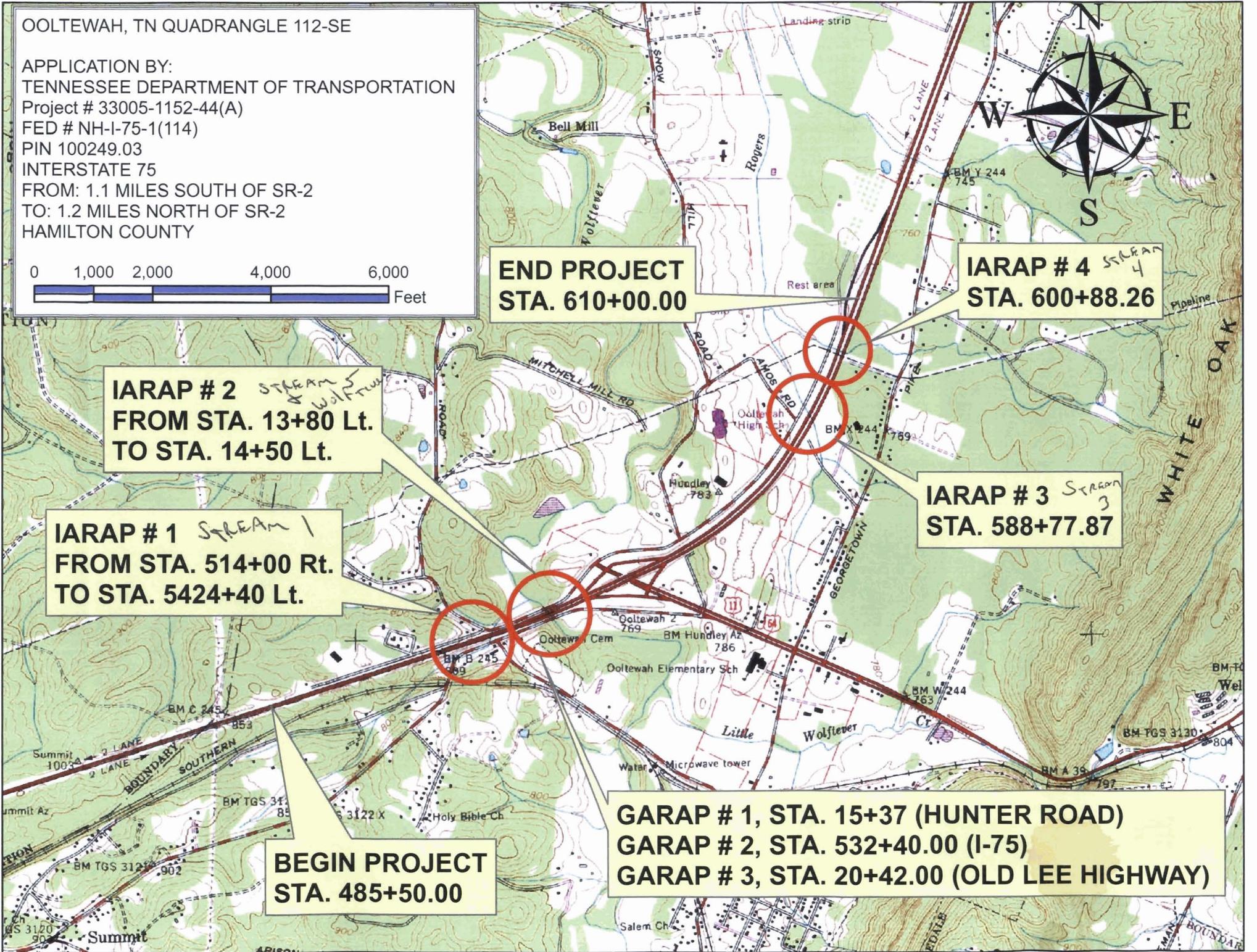
**IARAP # 2 *Stream 5
& Wolfcreek*
FROM STA. 13+80 Lt.
TO STA. 14+50 Lt.**

**IARAP # 1 *Stream 1*
FROM STA. 514+00 Rt.
TO STA. 5424+40 Lt.**

**IARAP # 3 *Stream 3*
STA. 588+77.87**

**BEGIN PROJECT
STA. 485+50.00**

**GARAP # 1, STA. 15+37 (HUNTER ROAD)
GARAP # 2, STA. 532+40.00 (I-75)
GARAP # 3, STA. 20+42.00 (OLD LEE HIGHWAY)**





Rodgers Branch



Stream 1, trib to Wolftever



Wolftever Creek